

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

Claim 1. (Currently Amended) A valve, comprising a valve body and a tube made of an elastomer extending through the inside of said valve body, said tube providing a flow passage having a flow passage axis, and for closing off the flow of fluid in said tube,

said valve characterized by further comprising squeezing means disposed facing each other across said tube, and a rotating member supported by said valve body so as to be rotatable about an axis of rotation, said squeezing means comprising a roller rotatably supported by said rotating member so that said roller orbits about the axis of rotation of said rotating member along with rotation of said rotating member, and an arc-shaped pressing surface formed on said valve body and extending ~~about~~ to be centered around said axis of rotation of said rotating member, part of said tube arranged along said pressing surface, wherein rotation of said rotating member makes said roller move to a position facing said pressing surface to collapse said tube and close the flow passage inside said tube and then makes said roller move parallel to said pressing surface so as to move a collapsed position where said tube is collapsed by said roller while maintaining said flow passage in the closed state,

wherein a cylinder chamber accommodating a piston is formed in said valve body, said piston adapted to be driven in an axial direction of said cylinder chamber by a working fluid, said piston provided with a notch extending in a direction vertical to a direction of movement of said piston;

wherein said rotating member further comprises an engagement shaft part positioned at a side opposite to said roller across said axis of rotation of said rotating member and extending parallel to said axis of rotation, said engagement shaft part engaging with said notch of said piston adapted to rotate about said axis of rotation of said rotating member along with the movement of said piston so as to make said rotating member rotate about said axis of rotation.

Claims 2-4. (Canceled)

Claim 5. (Original) The valve according to claim 4, wherein a spring is provided in said cylinder chamber and said piston is urged by said spring toward one end of said cylinder chamber in the axial direction.

Claim 6. (Original) The valve according to claim 5, wherein said piston is positioned by said spring at a neutral position where said roller supported by said rotating member linked with said piston collapses said tube together with said pressing surface to close the flow passage in said tube, and, when opening the flow passage in said tube and when making said roller move along the flow passage axis of said tube while collapsing said tube with said pressing surface, pressure of a working fluid is utilized to make said piston move from the valve fully closed position and said neutral position.

Claim 7. (Canceled)

Claim 8. (Withdrawn) The valve according to claim 4, wherein said rotating member has a cylindrical surface, a rack is provided on a side surface of said piston, a gear engaging with said rack is provided on the cylindrical surface of said rotating member, and said rotating member rotates about the axis of rotation along with movement of said piston.

Claim 9. (Withdrawn) The valve according to claim 1, wherein said rotating member is driven by an electric motor.

Claim 10. (Withdrawn) The valve according to claim 9, wherein said electric motor comprises a stepping motor.

Claims 11-12. (Canceled)